

WHAT IS CLAIMED IS:

1. A remote controller capable of transmitting different control signals for controlling an anti-theft device on an automobile, said remote controller comprising:

5 a casing;

 a controller circuit disposed in said casing and including

 a processor unit, and

10 a transmitter circuit connected electrically to and controlled by said processor unit so as to transmit the control signals wirelessly;

 a function key set mounted on said casing and connected electrically to said processor unit, said function key set including

15 a function select key operable so as to control selection of the control signals by said processor unit,

 a first command transmit key operable so as to enable said processor unit to control said transmitter circuit to transmit a currently selected one of the control signals, and

20 a user-programmable second command transmit key capable of being assigned with the currently selected one of the control signals, and operable so as to enable said processor unit to control said transmitter circuit to transmit an assigned one of the control signals; and

 a function display unit mounted on said casing and connected electrically to said processor unit, said

function display unit being controlled by said processor unit to provide a visual indication corresponding to the currently selected one of the control signals.

2. The remote controller as claimed in Claim 1, wherein

5 said function display unit includes:

 a plurality of lamp units, each of which corresponds to a respective one of the control signals and is activated by said processor unit when the respective one of the control signals is currently selected by said 10 processor unit; and

 a plurality of patterns, each of which is disposed adjacent to a respective one of said lamp units and illustrates a control function associated with the respective one of the control signals.

15 3. The remote controller as claimed in Claim 1, wherein

 said function display unit includes a liquid crystal display for showing a plurality of function icons thereon, each of said function icons illustrating a control function associated with a respective one of the control 20 signals.

 4. The remote controller as claimed in Claim 3, wherein
 said function select key enables said processor unit
 to control said function display unit to highlight one
 of said function icons corresponding to the currently
 selected one of the control signals.

25 5. The remoter controller as claimed in Claim 3, wherein
 said function select key enables said processor unit

to control said function display unit to position a cursor on one of said function icons corresponding to the currently selected one of the control signals.

6. The remote controller as claimed in Claim 1, wherein
5 said controller circuit further includes an audio output unit connected to and controlled by said processor unit so as to generate an audio output whenever one of the control signals is selected by said processor unit.

7. A remote controller capable of transmitting different
10 control signals for controlling an anti-theft device on an automobile, said remote controller comprising:

a casing;

15 a controller circuit disposed in said casing and including a processor unit and a transmitter circuit coupled to and controlled by said processor unit so as to transmit the control signals wirelessly;

a function key set mounted on said casing and coupled to said processor unit; and

20 a function display unit mounted on said casing and coupled to said processor unit;

25 said function key set including a function select key operable so as to control selection of the control signals by said processor unit, a first command transmit key, and a user-programmable second command transmit key;

said processor unit being operable in one of a first command transmission mode, where

operation of said first command transmit key, after
operation of said function select key to select one of
the control signals and to enable said processor unit
to control said function display unit for providing a
5 visual indication corresponding to the selected one of
the control signals, further enables said processor unit
to control said transmitter circuit for transmitting
the selected one of the control signals,

a key programming mode, where operation of said
10 second command transmit key, after operation of said
function select key to select one of the control signals
and to enable said processor unit to control said function
display unit for providing the visual indication
corresponding to the selected one of the control signals,
15 further enables said processor unit to assign the
selected one of the control signals to said second command
transmit key, and

a second command transmission mode, where
operation of said second command transmit key without
20 prior operation of said function select key enables said
processor unit to control said transmitter circuit for
transmitting one of the control signals that is assigned
to said second command transmit key.

8. The remote controller as claimed in Claim 7, wherein
25 said function display unit includes:

a plurality of lamp units, each of which corresponds
to a respective one of the control signals and is

activated by said processor unit when the respective one of the control signals is currently selected by said processor unit; and

5 a plurality of patterns, each of which is disposed adjacent to a respective one of said lamp units and illustrates a control function associated with the respective one of the control signals.

9. The remote controller as claimed in Claim 7, wherein
10 said function display unit includes a liquid crystal display for showing a plurality of function icons thereon, each of said function icons illustrating a control function associated with a respective one of the control signals.

15 10. The remote controller as claimed in Claim 9, wherein said function select key enables said processor unit to control said function display unit to highlight one of said function icons corresponding to a currently selected one of the control signals.

20 11. The remoter controller as claimed in Claim 9, wherein said function select key enables said processor unit to control said function display unit to position a cursor on one of said function icons corresponding to a currently selected one of the control signals.

25 12. The remote controller as claimed in Claim 7, wherein said controller circuit further includes an audio output unit coupled to and controlled by said processor unit so as to generate an audio output whenever one of the

control signals is selected by said processor unit.